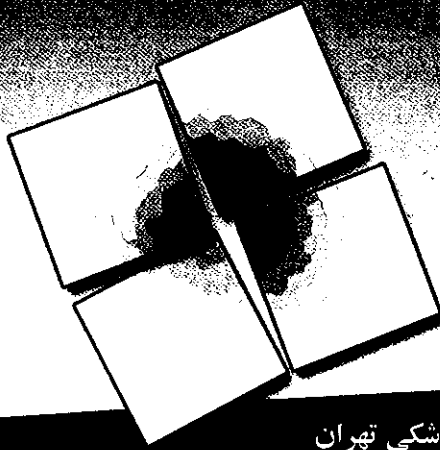




علوم پزشکی تهران



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Breast MR Imaging Artifacts

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Patient and technical factors may lead to unwanted artifacts at breast magnetic resonance (MR) imaging. Use of a properly functioning high-field-strength MR imaging system, a dedicated bilateral breast coil, and an optimal imaging protocol provides a solid framework for performing high-quality breast MR imaging. Problems related to breast positioning, selection of imaging volume, and phase-encoding direction can be overcome by training and providing feedback to MR imaging technologists. Common artifacts seen at breast MR imaging include motion, suboptimal fat suppression, metallic susceptibility, phase wrap, radiofrequency noise, and chemical shift. Once they are recognized, many of these artifacts can be corrected. Protocol monitoring and imaging-based feedback from the interpreting radiologist are essential for minimizing artifacts and optimizing breast MR imaging.